

Title (en)
SINGLE USE PULSE OXIMETER

Title (de)
PULSOXIMETER ZUR EINMALIGEN VERWENDUNG

Title (fr)
SPHYGMO-OXYMETRE A USAGE UNIQUE

Publication
EP 1948010 A4 20110601 (EN)

Application
EP 06825628 A 20061010

Priority
• US 2006039356 W 20061010
• US 25909205 A 20051027

Abstract (en)
[origin: US2007100218A1] A single use, self-contained, self-powered disposable oximeter, in the form of a patch or a bandage strip, has mounted thereto a light emitter and a light sensor that together measure at least the SpO₂ of the patient. Mounted to an electronics layer of the patch is an application specific integrated circuit (ASIC) that has electronics integrated thereto that controls the operation of the light emitter and light sensor, and the algorithm for calculating from the data collected by the sensor at least the SpO₂ of the patient. Optionally, a display and an alarm may also be mounted or embedded onto the patch for respectively displaying at least the SpO₂, and for informing the caregiver/patient that at least the SpO₂ is not within an acceptable range, if such is the case. Also provided in the patch is a battery that powers the operation of the ASIC circuit and the emitter, as well as the display and alarm if such optional components are provided on the patch. An attachment mechanism is also provided on the patch. Such mechanism may be in the form of an adhesive layer that can removably attach the patch to the patient in either a transmissive mode or a reflective mode. The patch oximeter may also be equipped with a transceiver, and the appropriate electronics, for wirelessly transceiving information to/from a remote device or another wireless patch oximeter. In place of a self-contained power source, the power for operating a wireless patch oximeter may be retrieved from a remote power source, provided that the patch oximeter is within a given distance from such remote power source.

IPC 8 full level
A61B 5/00 (2006.01); **H01R 43/00** (2006.01)

CPC (source: EP KR US)
A61B 5/00 (2013.01 - KR); **A61B 5/0002** (2013.01 - EP US); **A61B 5/14** (2013.01 - KR); **A61B 5/14551** (2013.01 - EP US); **A61B 5/6833** (2013.01 - EP US); **H01R 43/00** (2013.01 - KR); **A61B 2560/0219** (2013.01 - EP US); **A61B 2560/0285** (2013.01 - EP US); **A61B 2560/0412** (2013.01 - EP US); **A61B 2562/12** (2013.01 - EP US); **Y10T 29/49117** (2015.01 - EP US)

Citation (search report)
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• See references of WO 2007050269A2

Designated contracting state (EPC)
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US 2007100218 A1 20070503; US 7486977 B2 20090203; AU 2006306630 A1 20070503; AU 2006306630 B2 20120419; BR PI0617817 A2 20110809; CA 2626348 A1 20070503; CA 2626348 C 20150224; CN 101330866 A 20081224; CN 101330866 B 20110126; EP 1948010 A2 20080730; EP 1948010 A4 20110601; EP 1948010 B1 20171122; HK 1126641 A1 20090911; IL 190685 A0 20081103; JP 2009513244 A 20090402; JP 5425469 B2 20140226; KR 101309610 B1 20130917; KR 20080065986 A 20080715; RU 2008121176 A 20091210; RU 2428112 C2 20110910; TW 200722054 A 20070616; WO 2007050269 A2 20070503; WO 2007050269 A3 20071004

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US 25909205 A 20051027; AU 2006306630 A 20061010; BR PI0617817 A 20061010; CA 2626348 A 20061010; CN 200680047413 A 20061010; EP 06825628 A 20061010; HK 09104878 A 20090529; IL 19068508 A 20080408; JP 2008537734 A 20061010; KR 20087009978 A 20061010; RU 2008121176 A 20061010; TW 95137905 A 20061014; US 2006039356 W 20061010